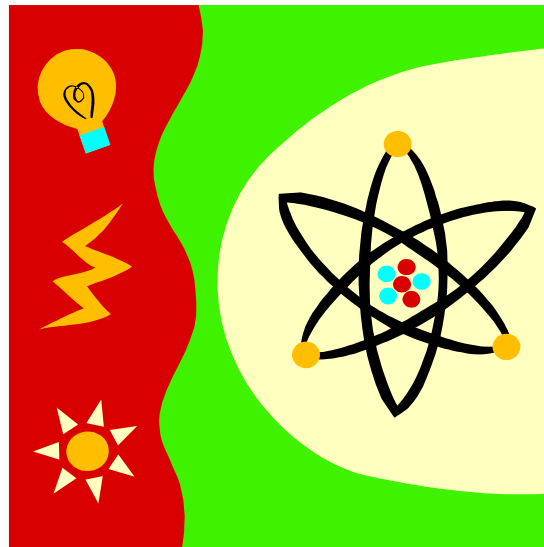


Prince George's County Public Schools 2017 Summer Science Calendar Grades K-2

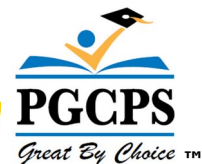


**Prince George's County Public Schools
Office of Academic Programs
Department of Curriculum and Instruction**

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Wednesday, September 6, 2017: All Students Return to School



A Note To The Student

Expectations for students in Grades K-2:

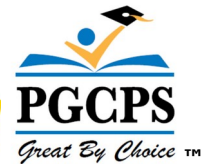
- Raise questions about the world around them and be willing to seek answers to some of them by making careful observations and trying things out.
- Observe and describe changes over time in the properties, location, and motion of celestial objects.
- Explain that there must be a cause for changes in the motion of an object.
- Identify and describe ways in which heat can be produced.
- Provide evidence from investigations to identify processes that can be used to change physical properties of materials.
- Compare the observable properties of a variety of objects and the materials they are made of using evidence from investigations.

You will need a science journal to record your responses. The science journal will be used to record exploration ideas, data, labeled graphs, newspaper clippings, and persuasive/writings and stories. Students can use a composition book or create their own journal by using the materials and directions below.

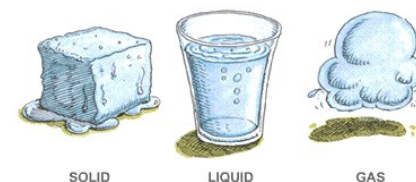
- Use the following materials to create your journal:
 - o construction paper
 - o magazines (collage material)
 - o notebook paper (3-hole)
 - o scissors
 - o single or 3-hole punch
 - o fasteners (yarn, ribbon, brads, rings)
 - o ruler
 - o tape
- Follow the procedures below to create your journal:
 - o Use construction paper to make a front and back cover for your journal. Cut the paper 23 cm wide by 30 cm long.
 - o Place a piece of 3-hole notebook paper over the front and back covers and trace the three holes with a pencil.



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- o Use a hole puncher to punch out the holes you traced.
- o Sandwich a stack of 3-hole notebook paper between the front and back covers of the journal and fasten the papers together.
- o Create the front and back cover of your science journal. Use your creative skills to draw a picture or create a collage of things that relate to science.



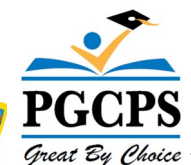
June 2017
Monday - Friday
Grades K-2 Science Calendar

Physical Science: This month you will focus on the different states of matter.

Monday	Tuesday	Wednesday	Thursday	Friday
19 Start of Summer Break Activity Calendar Visit your local library to check out a book to read about the states of matter.	20 Make a list and give the name of: 3 solids 3 liquids 3 gases	21 Visit the link below and watch the Magic School Bus show about matter: http://tinyurl.com/magicschoolbus-matter	22 In your science journal, explain how you could separate oil from water. Include a drawing to support your explanation.	23 Complete the “matter” activity from the link below. http://www.turtlediary.com/game/what-is-the-matter.html Record your observations in your journal.
26 Changes in Matter Science Rap. http://www.learninggamesforkids.com/featured-games/changes-at-the-beach-3.html Write in your journal, two sentences about what you observed from listening to the song and seeing the video.	27 For a sweet summer treat, click on the link below and complete the activity titled Solid to Liquid to Solid. http://tlc.howstuffworks.com/family/science-projects-for-kids-states-of-matter1.htm	28 - 29 Day One (June 28th): With a parent/guardian, you will need a large container. Rub your hands together and feel the heat of their palms. Get an ice cube to hold in your hands and hold your hands over the container. Hold until all the ice cubes have melted from the heat of your hands. In your journal, answer the following questions: 1. What happened to ice cubes? 2. Why did the ice cubes melt? Day Two (June 29th) Complete the activity by visiting the link below: http://www.abcya.com/states_of_matter.htm		30 Write 2 to 3 sentences in your journal that you learned about matter. Please include drawings and pictures to support what you learned.



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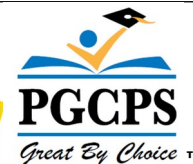
July 2017
Monday - Friday
Grades K-2 Science Calendar

Physical Science and Life Science: This month you will focus on sound, light, and plants

Monday	Tuesday	Wednesday	Thursday	Friday
3 Earth gets most of its energy from the sun. Visit the following website http://bbc.in/jnX14x to determine what are some items that give us light and dark. Remember to take the quiz at the end of the activity.	4 	5 Help Clifford find the words that begin with the same sound as the picture name: http://teacher.scholastic.com/clifford1/flash/phonics/	6 Sound is caused by vibrations (pushing and pulling) to cause waves. Think of one soft sound and loud sound. Write two sentences in your science journal to explain how these sounds are different. Draw a picture of an animal that is making a sound. Write a sentence that tells about the sound in your journal.	7 With help of your parents, hit pots and pans gently with a spoon. Which ones have a high pitch? Which ones have a low pitch? Put them in order from lowest to highest pitch. Record your observations in your journal.
10 Light and sound are forms of energy. Energy is the ability to do work. Use the following link to learn about the forms of energy: http://www.science4us.c	11 Experiment with light: http://www.hometrainingtools.com/a/prek2-light-science-project Write what you discover in your journal.	12 Visit the "Science of Sound" website to follow the directions on activities of your choice: http://www.galaxy.net/~k12/sound/ The words high and low are opposites. In your journal,	13 Watch a video on shadows: https://www.youtube.com/watch?v=ZSkOo364_wl Shadows are made when something blocks the	14 Shadows are made when something blocks the light. A shadow is 200 cm at breakfast, 100 cm at morning recess, and 50 cm at lunch. What pattern do you see? Record your answers in your science journal. If weather permits and with a



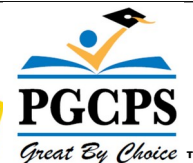
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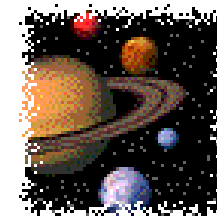
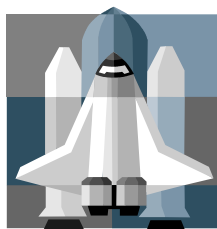
om/elementary-physical-science/energy/ . Use your journal to record the forms of energy and provide an example of each.		complete the following sentences using the words high or low. -The bear let out a __ pitch roar. -The monkey made a __pitched sound. -A mouse makes a squeak with a __pitch.	light. A shadow is 200 cm at breakfast, 100 cm at morning recess, and 50 cm at lunch. What pattern do you see? Record your answers in your science journal.	parent/guardian, go outside, stand in a sunny area and look at your shadow at the time below. • 9:00 am • 12:00 pm • 5:00 pm Write down or draw your observations in your journal.
17-18 Plants are important to our lives. Watch the videos about plants: https://www.youtube.com/watch?v=X6TLFZUC9gl https://www.youtube.com/watch?v=p3St51F4kE8 In your journal, draw a plant. Label and explain each part of the plant. Planting Bean Seeds -12-ounce clear plastic cups (with hole poked in bottom for water drainage) -plastic plate to rest the cups on -potting soil, without added fertilizer -dry kidney or lima beans (NOTE: these must first be soaked overnight) -water spray bottle Directions: -Fill a plastic cup most of the way with potting soil and plant 4-7 beans. -Cover the seeds gently with soil. -Lightly water the soil, using the water spray bottle. -In your journal, draw how your cup looks after you added the soil and seed.	19 Watch the video learn about photosynthesis and pollination. https://www.youtube.com/watch?v=3pD68uxRLkM https://www.youtube.com/watch?v=6CxCTyxRFh0 Write an explanation in your journal about the importance of photosynthesis and pollination.	20 Observe the seeds you planted in the plastic cup. Explain in your journal what you see. This a good time to lightly water your seeds in the soil.	21 Suggested field trip: Visit Port Discovery Children’s Museum located at 35 Market Place, Inner Harbor For more information and admission prices, click below: http://www.portdiscovery.org/generalinfo	
24 Planting Bean Seeds Write an explanation	25 Observe the seeds you planted in the plastic	26 In your journal write answers to the questions below:	27 Suggested field trips: Visit The United States	28 Suggested field trip: Visit Koshland Science Museum



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about your observation of what you see.	cup. Explain in your journal what you see. This a good time to lightly water your seeds in the soil.	Which part of a plant takes in water from the soil? a. flower b. roots c. stem Which need air, food, and water? a. book b. plants c. tape What part of the plant makes food for the plant. a. leaves b. stem c. root	Botanic Garden 100 Maryland Ave SW, Washington, DC 20001 For museum hours: https://www.usbg.gov/ Visit National Museum of American History 10th St. & Constitution Ave. NW, Washington, DC 20560 / 202-633-1000 Free Admission For museum hours: http://www.mnh.si.edu/	525 E Street, NW Washington, DC 20001 Adults - \$5 Active Duty Military - \$3 Students - \$3 They do not accept cash. Last Admission: 5 pm https://www.koshland-science-museum.org/
31 Last Observation: Observe the seeds you planted in the plastic cup. Explain in your journal what you see.				



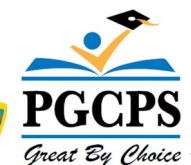
August 2017
Monday - Friday
Grades K-2 Science Calendar

Earth and Space Science: This month you will focus on stars, planets, and solar system.

Monday	Tuesday	Wednesday	Thursday	Friday
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	1 Using your journal, write the name of tools you can use to see the stars better at night.	2 In your journal, explain how long it will take for the moon to move around the Earth three times.	3 - 4 In your journal, write down the names of the planets in the order from our Sun. Draw a picture of each planet next to its name. Give an explanation on why you think the planets are in order from the Sun. Discuss your explanation with your parents/guardians. The stars and planets are always in the sky with the sun in the middle of the solar system. Create a solar system by going to the site below: http://www.scigames.org/game.php?id=2.	
7 In your journal, draw a picture of yourself as an astronaut working in space. Tell what kind of work you might do in space.	8 How could you show that the moon can sometimes be seen in the day sky? Investigate to find out. Record your responses in your journal.	9 Draw a picture of the night sky. Use chalk and black construction paper. In your journal, write two sentences to explain your drawing.	10 The stars and planets are always in the sky with the sun in the middle of the solar system. Create a solar system by going to the site below: http://www.scigames.org/game.php?id=2.	11 Suggested field trip: Visit the Smithsonian National Air and Space Museum National Mall Building located at Independence Ave at 6th Street SW Washington, DC 20560 202-633-2214 Free Admission



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